

ABSTRACT OF THE DISCLOSURE

A digital signal processor. The digital signal processor includes a first data classification block. The first data classification block outputs a first block priority number associated with a first data stored in the first data classification block that matches a search key. The digital signal processor includes a second data classification block. The second data classification block outputs a second priority number associated with a second data stored in the second data classification block that matches the search key. The digital signal processor includes a device index processor. The device index processor selects a most significant block priority number from the first block priority number and the second block priority number.